Press Release

Nokia Networks, Coriant first to extend self-organizing networks to mobile backhaul #MWC15

- Self-aware mobile backhaul system automatically adapts to changing network demand
- Provides optimal service performance and user experience at all times

Espoo, Finland – 12 February 2015

Nokia Networks and Coriant are first to extend intelligent self-organizing networks (SON) to mobile backhaul. The innovation will be demonstrated for the first time at Mobile World Congress 2015. The SON for mobile backhaul Proof of Concept shows how advanced analytics and software defined networking (SDN) work together to create programmable, self-aware networks that assure an optimal service experience end-to-end. The same level of experience can be achieved with 20% less transport infrastructure than is needed in today’s networks.

Reversing the conventional paradigm for a better service quality
The self-aware network extends SDN beyond automated service provisioning to automatically reconfigure network resources based on analysis of the factors that impact customer experience and service level agreements. By reversing the conventional paradigm – in which services must conform to the network – SON adapts the mobile backhaul network to the demands of mobile services. This results in a better perceived Quality of Experience because high service quality is maintained every time a user runs an application.

Click to Tweet: World’s 1st: @nokianetworks, @CoriantConnect demo SON over mobile backhaul at #MWC15 nokia.ly/1M5dD9h #NetworksPerform #FutureWorks

Proof of Concept at a glance:
- Creates a programmable, self-aware mobile backhaul network that maintains optimal performance
- Monitors user and control plane traffic as well as network quality indicators
- Dynamically reconfigures network resources to improve service quality based on real-time analytics and anomaly detection
- Simplifies network planning, deployment and operation
- Optimizes utilization of transport resources and increases the lifespan of an operator’s infrastructure investments

Hossein Moin, Executive Vice President and CTO at Nokia Networks, said: “This Proof of Concept is the first of its kind to provide a fully automated capability for self-configuration and self-optimization of multi-vendor mobile backhaul networks using SDN as the management layer. It is a major step towards teaching networks to be self-aware and realizing our Technology Vision 2020. It also reduces total cost of transmitting each bit by making transport networks intelligent enough to take network planning and daily operational decisions in the most cost-effective way on their own.”

corant.com/company
Paul Smelters, Senior Vice President of Data Networks, Coriant, said: “Coriant innovation in SDN is leading the revolution to programmable, service-aware data-optical networks. Through this joint program with Nokia Networks, Coriant is showing how it is enabling services as the driver of programmable mobile backhaul and fixed-mobile converged networks.”

Products used in the live demonstration at the Coriant booth in Hall 2, Stand 2I30:

- Nokia’s SON technology
- Coriant 8600 Smart Routers
- Coriant SDN controller
- Nokia LTE base stations
- Nokia System Architecture Evolution (SAE) gateway

For other Nokia Networks demos at Mobile World Congress visit the Nokia Experience Center in Hall 3, stand 3B10, or view the news at: www.networks.nokia.com/performance.

Resources:

- Executive Summary: Self-Organizing Networks for Mobile Backhaul

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TAGS: self-organizing networks, SON, software-defined networking, SDN, mobile backhaul, MBH, Coriant, Nokia Networks, NET, customer experience, FutureWorks

About Coriant

Coriant, founded as an independent company in 2013, is an industry-leading supplier of dynamic metro-to-core transport solutions. We serve over 500 customers globally, including 90% of the world’s top 50 service providers. Our packet optical, edge router and Software Defined Networking (SDN) solutions enable mobile and fixed line operators to reduce network complexity, increase service velocity, and improve resource utilization as transport networks scale in response to a new generation of high-bandwidth services and applications. The company operates worldwide in more than 48 countries, with R&D centers in Asia, Germany, Portugal, Finland, Canada and the United States, as well as a state-of-the-art production center in Berlin, Germany. Learn more at www.coriant.com.

About Nokia

Nokia invests in technologies important in a world where billions of devices are connected. We are focused on three businesses: network infrastructure software, hardware and services, which we offer through Nokia Networks; location intelligence, which we provide...
through HERE; and advanced technology development and licensing, which we pursue through Nokia Technologies. Each of these businesses is a leader in its respective field.

Nokia Networks is the world’s specialist in mobile broadband. From the first ever call on GSM, to the first call on LTE, we operate at the forefront of each generation of mobile technology. Our global experts invent the new capabilities our customers need in their networks. We provide the world’s most efficient mobile networks, the intelligence to maximize the value of those networks, and the services to make it all work seamlessly. http://networks.nokia.com/ // http://company.nokia.com

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Notes:

* The live demonstration at Mobile World Congress 2015 is based on the mobile backhaul self-organizing network Proof of Concept developed by Coriant and Nokia as part of the SDN Concept in Generalized Mobile Network Architectures (SIGMONA) research project. The Proof of Concept is implemented at Nokia’s verification and prototyping lab (VeproLab) and based on Nokia’s Long Term Evolution (LTE) equipment enhanced with cognitive capabilities, multi-vendor transport equipment including Coriant 8600 smart routers and Coriant SDN controller. With the Coriant Transcend™ SDN Solution and the Coriant SDN-enabled 8600 Smart Router Series, Coriant has created a platform for a service-aware mobile backhaul network that can be dynamically optimized to traffic demand so that mobile Quality of Service / Quality of Experience is maintained.